

Results of Soil Gas Sampling and Next Steps

- Janet Rosati
- US EPA
- Remedial Project Manager
- (415) 972-3165
- rosati.janet@epa.gov





TCE Soil Vapor Concentrations

Approximate Scale

0 400 ft



SV21
ND
67

Installed Soil Gas Location and ID

TCE Result at 5 feet
TCE Result at 15 feet

TCE SGHHS = 520 µg/m³

June 7, 2011

- TCE concentration not detected
- TCE concentration less than SGHHSL
- TCE concentration greater than SGHHSL
- Location not yet sampled



PCE Soil Vapor Concentrations

Approximate Scale



0 400 ft

SV21
ND
40

Installed Soil Gas Location and ID

PCE Result at 5 feet
PCE Result at 15 feet

PCE SGHSL = 180 µg/m³

- PCE concentration not detected
- PCE concentration less than SGHSL
- PCE concentration greater than SGHSL
- SGHSL not yet sampled

June 7, 2011

CLEAR CREEK ASSOCIATES



TCE Soil Vapor Concentrations

Approximate Scale



0

200 ft

SV37
360
910

Installed Soil Gas Location and ID
TCE Result at 5 feet
TCE Result at 15 feet

TCE SGHHS = 520 $\mu\text{g}/\text{m}^3$

June 7, 2011

- TCE concentration not detected
- TCE concentration less than SGHHS
- TCE concentration greater than SGHHS
- Location not yet sampled



PCE Soil Vapor Concentrations

Approximate Scale

0 200 ft



SV37
ND
63

Installed Soil Gas Location and ID
PCE Result at 5 feet
PCE Result at 15 feet

PCE SGHHS = 180 µg/m³

June 7, 2011

- PCE concentration not detected
- PCE concentration less than SGHHS
- PCE concentration greater than SGHHS
- Location not yet sampled



TCE Soil Vapor Concentrations

Approximate Scale

0 400 ft



SV22
60
100

Installed Soil Gas Location and ID
TCE Result at 5 feet
TCE Result at 15 feet

TCE SGHHS = 520 $\mu\text{g}/\text{m}^3$

June 7, 2011

- TCE concentration not detected
- TCE concentration less than SGHHSL
- TCE concentration greater than SGHHSL
- Location not yet sampled



PCE Soil Vapor Concentrations

Approximate Scale



400 ft

0

SV21
ND
40
Installed Soil Gas Location and ID
PCE Result at 5 feet
PCE Result at 15 feet

PCE SGHHSL = 180 µg/m³

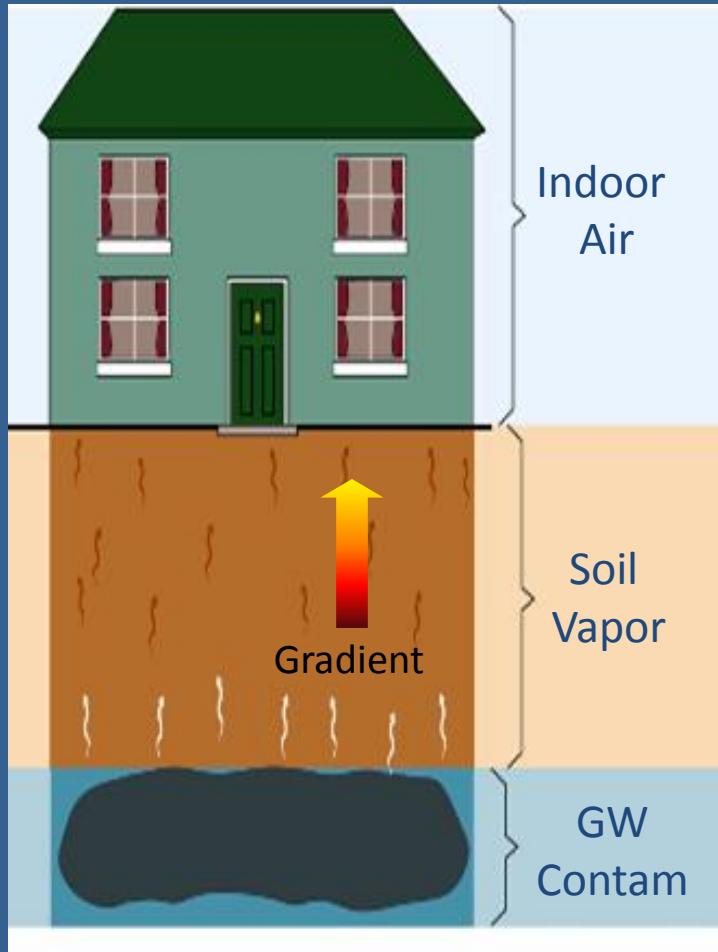
June 7, 2011

- PCE concentration not detected
- PCE concentration less than SGHHSL
- PCE concentration greater than SGHHSL
- Location not yet sampled

Indoor Air Sampling

- EPA is working with Freescale to prepare an Indoor Air Work Plan
- Access Agreement for permission to sample private property
- Sample of indoor air, sub slab soil gas and outdoor air will be collected.

Complementary Lines of Evidence



Sub-slab Probe Installation & Sampling





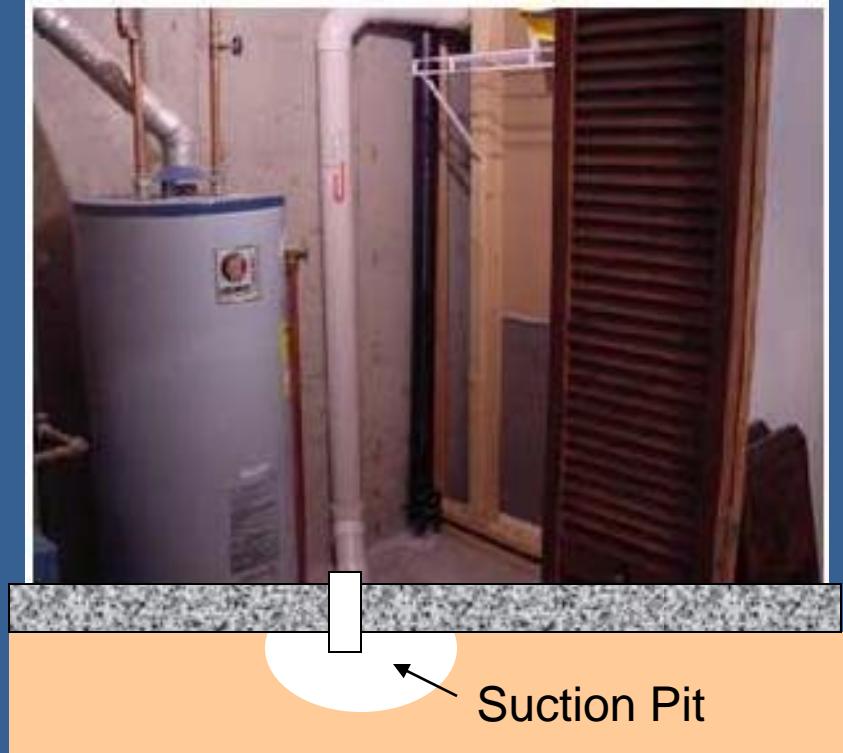
Indoor Air Sampling



Outdoor Air Sampling

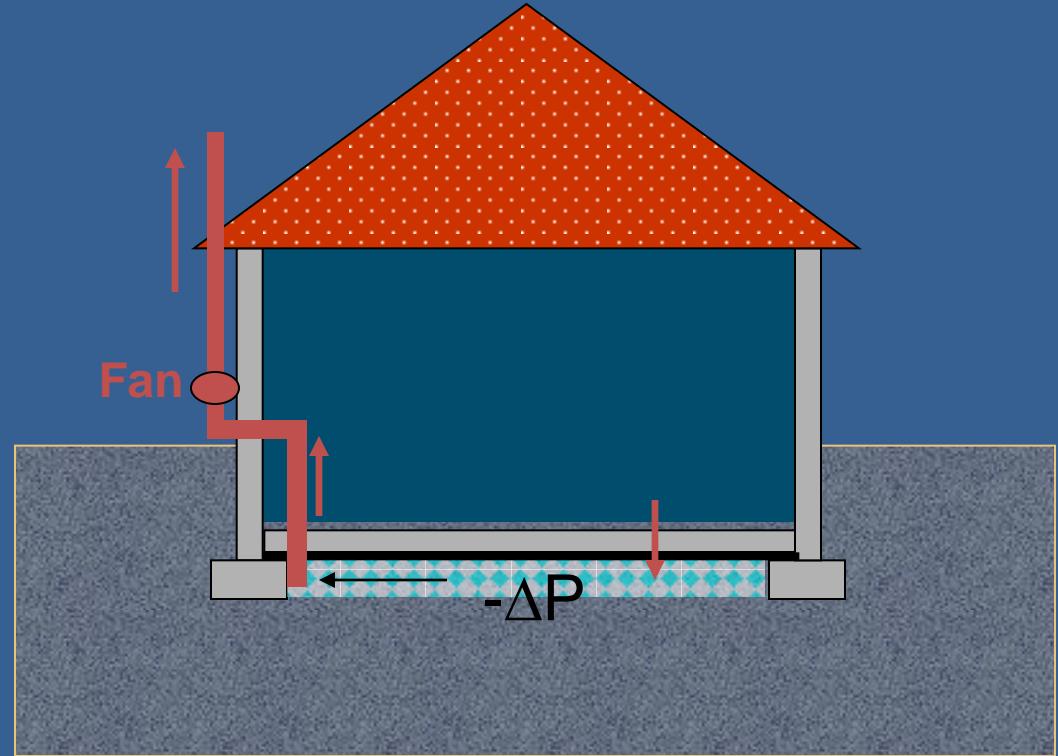
Example Sub Slab Depressurization System

- Intercepts vapors and prevents them from entering building

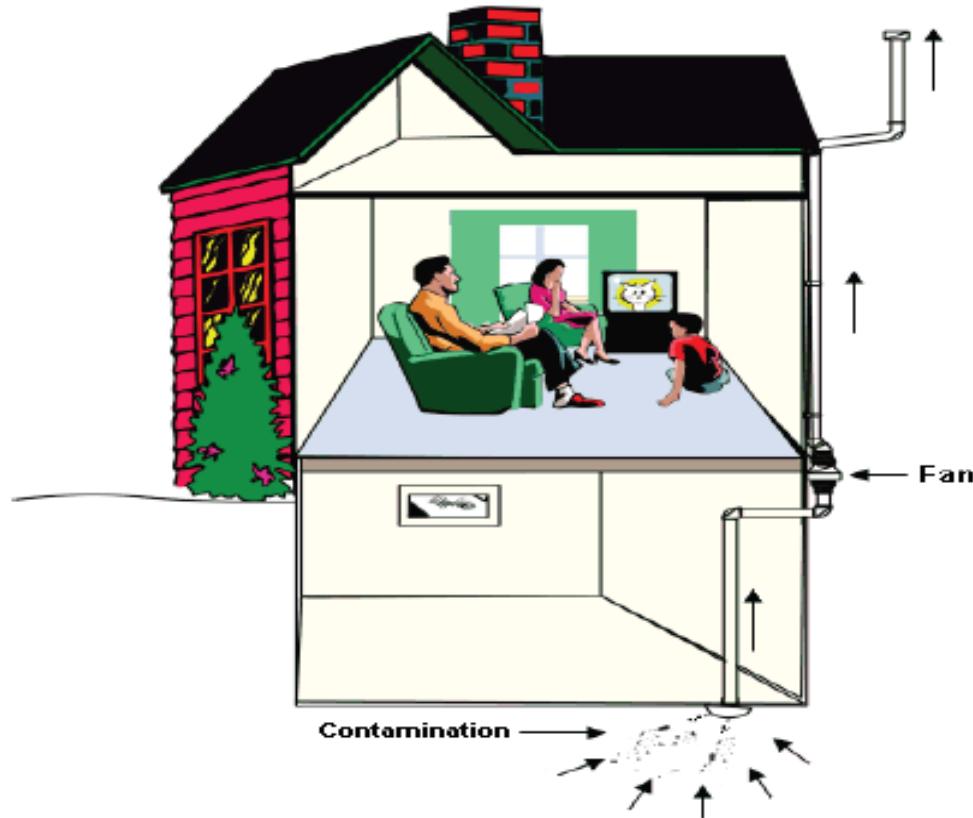


Example Sub Slab Venting Depressurization

- Active venting layers rely on fans to create suction (i.e., depressurize venting layer)



Vapor Mitigation System



Complementary Lines of Evidence

